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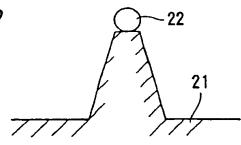
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(54) Ultra-fine microfabrication method using an energy beam

(57) An ultra-fine microfabrication method using an energy beam is based on the use of shielding provided by nanometer or micronmeter sized micro-particles to produce a variety of three-dimensional fine-structures which have not been possible to produce by the traditional photolithographic technique which is basically designed to produce two-dimensional structures. When the basic technique of radiation of energy beam and shielding is combined with a shield positioning tech-

nique using magnetic, electrical field or laser beam, with or without the additional chemical effects provided by reactive gas particles beams or solutions, fine-structures of very high aspect ratios can be produced with precision. Applications of devices having the fine-structure produced by the method include wavelength shifting in optical communications, quantum effect devices and intensive laser devices.







EUROPEAN SEARCH REPORT

EP 96 10 2976

	DOCUMENTS CON	SIDERED TO BE RELEVANT		1
Category	Citation of document v	vith indication, where appropriate. passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
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